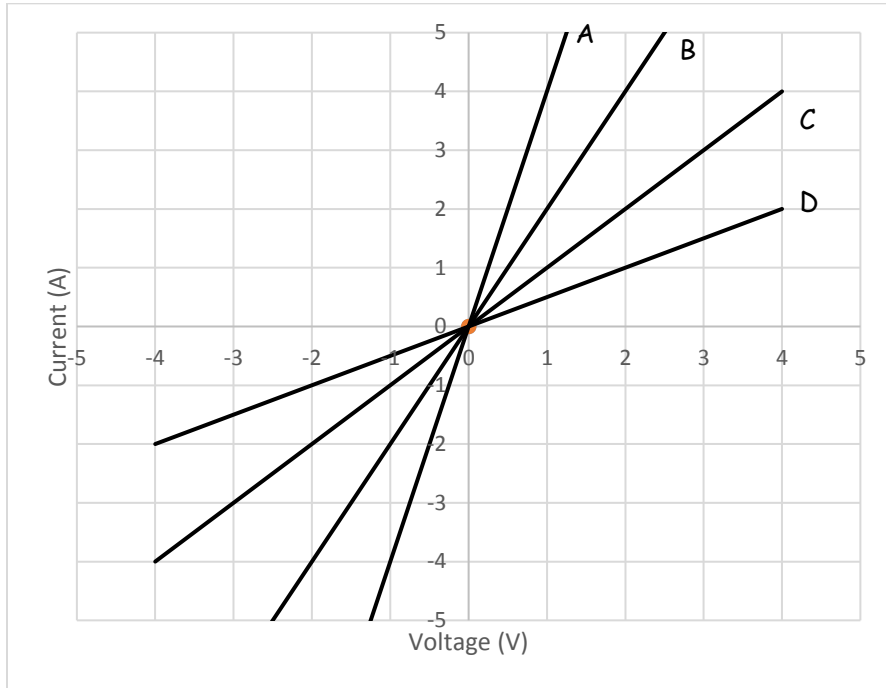


**HW 6.1 - Ohm's Law**

Name: .....

1. The diagram below shows the  $I - V$  graphs for four resistors A, B, C and D.



a) Which resistor has the greatest resistance? (1) .....

b) Which resistor has the least resistance? (1) .....

c) Calculate the resistance of resistor B (2)

d) State the equation that links voltage, current and resistance. (1)

e) The resistance of resistor B is tested at different temperatures. At  $80^{\circ}\text{C}$  it has a resistance of  $0.6 \Omega$  when the voltage across it is  $20 \text{ V}$ . Calculate the current through the resistor. (3)